

WEST Search History

DATE: Wednesday, March 16, 2005

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L44	L43 and ((transform\$4) with (connect\$4 or couple\$4 or link\$3 or induct\$4))	1
<input type="checkbox"/>	L43	L12 and (gradient with (coil or winding or helix))	4
<input type="checkbox"/>	L42	L13 and (gradient with (coil or winding or helix))	1
<input type="checkbox"/>	L41	L35 and (gradient with (coil or winding or helix))	1
<input type="checkbox"/>	L40	L28 and (gradient with (coil or winding or helix))	1
<input type="checkbox"/>	L39	L27 and (gradient with (coil or winding or helix))	4
<input type="checkbox"/>	L38	L26 and (gradient with (coil or winding or helix))	23
<input type="checkbox"/>	L37	L29 and (gradient with (coil or winding or helix))	1
<input type="checkbox"/>	L36	L24 and (gradient with (coil or winding or helix))	149
<input type="checkbox"/>	L35	L31 and ((switch\$4) with ripple)	5
<input type="checkbox"/>	L34	L31 and (gradient)	2
<input type="checkbox"/>	L33	L32 and (".omega." or (angular with frequency))	4
<input type="checkbox"/>	L32	L31 and (capacit\$4)	45
<input type="checkbox"/>	L31	L30 and ((switch\$4) with (amplified or amplification or amplifying or amplifies or amplifier) with (current) with (coil or winding or helix) with (induct\$4))	57
<input type="checkbox"/>	L30	L29 and ((switch\$4) with (amplified or amplification or amplifying or amplifies or amplifier) with (current) with (coil or winding or helix))	71
<input type="checkbox"/>	L29	L28 and (current with (coil or winding or helix))	133
<input type="checkbox"/>	L28	L27 and (current with phas\$3)	159
<input type="checkbox"/>	L27	L26 and ((switch\$4) with (amplified or amplification or amplifying or amplifies or amplifier) with (induct\$4))	242
<input type="checkbox"/>	L26	L25 and ((switch\$4) with (amplified or amplification or amplifying or amplifies or amplifier) with (current))	1667
<input type="checkbox"/>	L25	L24 and ((switch\$4) with (amplified or amplification or amplifying or amplifies or amplifier))	4817
<input type="checkbox"/>	L24	L20 and ((transform\$4) with (connect\$4 or couple\$4 or link\$3 or induct\$4))	13922
<input type="checkbox"/>	L23	L22 and ((switch\$4) with ripple)	486
<input type="checkbox"/>	L22	L21 and (ripple)	2204
<input type="checkbox"/>	L21	L20 and (frequency or RF)	17808
<input type="checkbox"/>	L20	L19 and (current)	20391
<input type="checkbox"/>	L19	L18 and (amplified or amplification or amplifying or amplifies or amplifier)	21297

<input type="checkbox"/>	L18	L17 and (switch\$4)	34002
<input type="checkbox"/>	L17	L16 and (phas\$3)	55995
<input type="checkbox"/>	L16	L15 and (coil or winding or helix)	101984
<input type="checkbox"/>	L15	L14 and (induct\$4)	156608
<input type="checkbox"/>	L14	(transform\$4)	847415
<input type="checkbox"/>	L13	L12 and ((transform\$4) with (connect\$4 or couple\$4 or link\$3 or induct\$4))	3
<input type="checkbox"/>	L12	L11 and (capacit\$4)	6
<input type="checkbox"/>	L11	L10 and (transform\$4)	7
<input type="checkbox"/>	L10	L9 and (amplified or amplification or amplifying or amplifies or amplifier)	18
<input type="checkbox"/>	L9	L8 and (current)	18
<input type="checkbox"/>	L8	L7 and (frequency or RF)	18
<input type="checkbox"/>	L7	L6 and ((switch\$4) with ripple)	18
<input type="checkbox"/>	L6	L5 and (ripple)	46
<input type="checkbox"/>	L5	L4 and (switch\$4)	2996
<input type="checkbox"/>	L4	L3 and (phas\$3)	9043
<input type="checkbox"/>	L3	L2 and (induct\$4)	10470
<input type="checkbox"/>	L2	L1 and (gradient)	42534
<input type="checkbox"/>	L1	((Magnetic adj resonance) or MRI or NMR)	199069

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 6

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw
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☐ 2. Document ID: US 20050017699 A1

L12: Entry 2 of 6

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050017699

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050017699 A1

TITLE: Series interleaved boost converter power factor correcting power supply

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanley, Gerald A.	Osceola	IN	US	

US-CL-CURRENT: 323/282

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Draw
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☐ 3. Document ID: US 20050017695 A1

L12: Entry 3 of 6

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050017695

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050017695 A1

TITLE: Opposed current converter power factor correcting power supply

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanley, Gerald R.	Osceola	IN	US	

US-CL-CURRENT: 323/207

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 4. Document ID: US 5721490 A

L12: Entry 4 of 6

File: USPT

Feb 24, 1998

US-PAT-NO: 5721490

DOCUMENT-IDENTIFIER: US 5721490 A

TITLE: Power source apparatus including a plurality of output current amplifiers connected in parallel and MRI apparatus using the same

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Hiroshi	Ibaraki-ken			JP
Takeuchi; Hiroyuki	Kashiwa			JP
Chabata; Keiichi	Kashiwa			JP
Domoto; Takuya	Kashiwa			JP
Hatakeyama; Takanobu	Ryugasaki			JP

US-CL-CURRENT: 324/322; 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Drawings
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☐ 5. Document ID: US 5270657 A

L12: Entry 5 of 6

File: USPT

Dec 14, 1993

US-PAT-NO: 5270657

DOCUMENT-IDENTIFIER: US 5270657 A

TITLE: Split gradient amplifier for an MRI system

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wirth; William F.	Sullivan	WI		
McFarland; Thomas G.	Hartland	WI		
Vavrek; Robert M.	Waukesha	WI		
Roemer; Peter B.	Schenectady	NY		
Mueller; Otward M.	Ballston Lake	NY		
Park; John N.	Rexford	NY		

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D
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☐ 6. Document ID: US 5081409 A

L12: Entry 6 of 6

File: USPT

Jan 14, 1992

US-PAT-NO: 5081409

DOCUMENT-IDENTIFIER: US 5081409 A

TITLE: Pulse-width modulated circuit for driving a load

DATE-ISSUED: January 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goff; Jerry K.	Doylestown	PA		

US-CL-CURRENT: 318/811; 318/599, 388/811, 388/907.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
CAPACIT\$4	0
CAPACIT	8014
CAPACITA	1520
CAPACITAA	1
CAPACITAACA	1

CAPACITAACC	1
CAPACITAACE	10
CAPACITAAI	1
CAPACITABCE	1
CAPACITABEE	1
CAPACITABLY	2
(L11 AND (CAPACIT\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 3

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Notes	Drawings
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☐ 2. Document ID: US 20050017699 A1

L13: Entry 2 of 3

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050017699

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050017699 A1

TITLE: Series interleaved boost converter power factor correcting power supply

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanley, Gerald A.	Osceola	IN	US	

US-CL-CURRENT: 323/282

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Notes	Drawings
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☐ 3. Document ID: US 20050017695 A1

L13: Entry 3 of 3

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050017695

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050017695 A1

TITLE: Opposed current converter power factor correcting power supply

PUBLICATION-DATE: January 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stanley, Gerald R.	Osceola	IN	US	

US-CL-CURRENT: 323/207

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords	Drawings
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Term	Documents
TRANSFORM\$4	0
TRANSFORM	201299
TRANSFORMA	1129
TRANSFORMAAND	1
TRANSFORMAAON	1
TRANSFORMAAT	1
TRANSFORMAB	6
TRANSFORMABE	2
TRANSFORMABI	1
TRANSFORMABIE	3
TRANSFORMABL	3
(L12 AND ((TRANSFORM\$4) WITH (CONNECT\$4 OR COUPLE\$4 OR LINK\$3 OR INDUCT\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L33: Entry 1 of 4

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOC	Drawings
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☐ 2. Document ID: US 4795969 A

L33: Entry 2 of 4

File: USPT

Jan 3, 1989

US-PAT-NO: 4795969

DOCUMENT-IDENTIFIER: US 4795969 A

TITLE: Load loss standard for testing and calibrating high voltage power measuring systems

DATE-ISSUED: January 3, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
So; Eddy	Gloucester			CA

US-CL-CURRENT: 324/74; 323/356, 324/130, 324/601, 324/603

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOC	Drawings
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☐ 3. Document ID: US 3371270 A

L33: Entry 3 of 4

File: USOC

Feb 27, 1968

US-PAT-NO: 3371270

DOCUMENT-IDENTIFIER: US 3371270 A

TITLE: Devices for the measurement of weak magnetic fields by nuclear induction

DATE-ISSUED: February 27, 1968

INVENTOR-NAME: PIERRE SERVOZ-GAVIN; ANDRE ROCHET

US-CL-CURRENT: 324/301

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D.
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☐ 4. Document ID: US 2207750 A

L33: Entry 4 of 4

File: USOC

Jul 16, 1940

US-PAT-NO: 2207750

DOCUMENT-IDENTIFIER: US 2207750 A

TITLE: Radio receiver and direction finder

DATE-ISSUED: July 16, 1940

INVENTOR-NAME: MILLER HAROLD B; FISHER GERHARD R

US-CL-CURRENT: 342/436, 455/275

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw D.
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Term	Documents
.OMEGA.	0
.OMEGA.S	0
ANGULAR	726363
ANGULARS	15
FREQUENCY	1830827
FREQUENCIES	429007
FREQUENCYS	70
(32 AND (.OMEGA." OR (ANGULAR WITH	4

FREQUENCY))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	
(L32 AND (".OMEGA." OR (ANGULAR WITH FREQUENCY))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20050024056 A1

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L34: Entry 1 of 2

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 2. Document ID: US 2673241 A

L34: Entry 2 of 2

File: USOC

Mar 23, 1954

US-PAT-NO: 2673241

DOCUMENT-IDENTIFIER: US 2673241 A

TITLE: Telephone answering and recording device

DATE-ISSUED: March 23, 1954

INVENTOR-NAME: DEVENTER HARRY R VAN; BAILEY PAUL C

US-CL-CURRENT: 379/82, 379/85, 379/87

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
(31 AND GRADIENT).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2
(L31 AND (GRADIENT)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L35: Entry 1 of 5

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOI	Draw D
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☐ 2. Document ID: US 20010043450 A1

L35: Entry 2 of 5

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010043450

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010043450 A1

TITLE: System and method for servo control of nonlinear electromagnetic actuators

PUBLICATION-DATE: November 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Seale, Joseph B.	Gorham	ME	US	
Bergstrom, Gary E.	Moreland Hills	OH	US	

US-CL-CURRENT: 361/160

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw D
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☐ 3. Document ID: US 6208497 B1

L35: Entry 3 of 5

File: USPT

Mar 27, 2001

US-PAT-NO: 6208497

DOCUMENT-IDENTIFIER: US 6208497 B1

TITLE: System and method for servo control of nonlinear electromagnetic actuators

DATE-ISSUED: March 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seale; Joseph B.	Gorham	ME		
Bergstrom; Gary E.	Moreland Hills	OH		

US-CL-CURRENT: 361/160; 361/154

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw D
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☐ 4. Document ID: US 5642267 A

L35: Entry 4 of 5

File: USPT

Jun 24, 1997

US-PAT-NO: 5642267

DOCUMENT-IDENTIFIER: US 5642267 A

TITLE: Single-stage, unity power factor switching converter with voltage bidirectional switch and fast output regulation

DATE-ISSUED: June 24, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brkovic; Milivoje S.	Plano	TX		
Cuk; Slobodan	Laguna Hills	CA		

US-CL-CURRENT: 363/16; 323/224, 323/286

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IMC	Draw D
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☐ 5. Document ID: US 5539630 A

L35: Entry 5 of 5

File: USPT

Jul 23, 1996

US-PAT-NO: 5539630

DOCUMENT-IDENTIFIER: US 5539630 A

TITLE: Soft-switching converter DC-to-DC isolated with voltage bidirectional switches on the secondary side of an isolation transformer

DATE-ISSUED: July 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pietkiewicz; Andrzej	Burgdorf			CH
Cuk; Slobodan	Laguna Hills	CA		
Brkovic; Milivoje S.	Pasadena	CA		

US-CL-CURRENT: 363/17; 363/132, 363/98

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Keywords	Drawings
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Term	Documents
RIPPLE	45239
RIPPLES	12196
SWITCH\$4	0
SWITCH	1921643
SWITCHA	211
SWITCHAAID	1
SWITCHAAP	1
SWITCHAB	11
SWITCHABAR	1
SWITCHABE	5
SWITCHABIC	2
(L31 AND ((SWITCH\$4) WITH RIPPLE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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Search Results - Record(s) 1 through 23 of 23 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L38: Entry 1 of 23

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Notes	Drawings
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☐ 2. Document ID: US 20040107070 A1

L38: Entry 2 of 23

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040107070

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040107070 A1

TITLE: Magnetic tracking system

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Anderson, Peter T.	Andover	MA	US	
Beauregard, Gerald L.	Hampton	NH	US	
Cherry, Christopher D.	Bolton	MA	US	

US-CL-CURRENT: 702/150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U.
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☐ 3. Document ID: US 20030197093 A1

L38: Entry 3 of 23

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030197093

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030197093 A1

TITLE: Magnetic vortex wormhole generator

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
St.Clair, John Quincy	San Juan	PR	US	

US-CL-CURRENT: 244/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U.
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☐ 4. Document ID: US 20030184285 A1

L38: Entry 4 of 23

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030184285

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030184285 A1

TITLE: Magnetic tracking system

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Anderson, Peter T.	Andover	MA	US	
Beauregard, Gerald L.	Hampton	NH	US	
Cherry, Christopher D.	Bolton	MA	US	

US-CL-CURRENT: 324/207.17; 378/1, 606/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Draw U.
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☐ 5. Document ID: US 6774624 B2

L38: Entry 5 of 23

File: USPT

Aug 10, 2004

US-PAT-NO: 6774624
DOCUMENT-IDENTIFIER: US 6774624 B2

TITLE: Magnetic tracking system

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Peter T.	Andover	MA		
Beauregard; Gerald L.	Hampton	NH		
Cherry; Christopher D.	Bolton	MA		

US-CL-CURRENT: 324/207.17; 324/207.22, 324/247, 600/424, 702/150

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Notes	Drawings
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☐ 6. Document ID: US 6154031 A

L38: Entry 6 of 23

File: USPT

Nov 28, 2000

US-PAT-NO: 6154031
DOCUMENT-IDENTIFIER: US 6154031 A

TITLE: Gradient drive system for magnetic resonance imaging

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes; Raymond Leonard	Harpenden			GB

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Notes	Drawings
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☐ 7. Document ID: US 5844786 A

L38: Entry 7 of 23

File: USPT

Dec 1, 1998

US-PAT-NO: 5844786
DOCUMENT-IDENTIFIER: US 5844786 A

TITLE: DC-DC converter circuit and inductive load driver using it

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Daisuke	Hadano			JP

Hagiwara; Masao Hiratsuka JP
Kawaji; Yasushi Yokohama JP

US-CL-CURRENT: 363/21.01; 323/222, 323/282, 363/17, 363/20, 363/21.12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw U
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☐ 8. Document ID: US 5541482 A

L38: Entry 8 of 23

File: USPT

Jul 30, 1996

US-PAT-NO: 5541482

DOCUMENT-IDENTIFIER: US 5541482 A

TITLE: Electrodeless discharge lamp including impedance matching and filter network

DATE-ISSUED: July 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Siao; Roger	Mountain View	CA		

US-CL-CURRENT: 315/248; 315/267, 315/276, 330/188, 330/195, 330/207R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw U
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☐ 9. Document ID: US 5311136 A

L38: Entry 9 of 23

File: USPT

May 10, 1994

US-PAT-NO: 5311136

DOCUMENT-IDENTIFIER: US 5311136 A

TITLE: Gradient power source apparatus for magnetic resonance imaging system

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Fumikazu	Tochigi			JP

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	DOC	Draw U
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☐ 10. Document ID: US 5301095 A

L38: Entry 10 of 23

File: USPT

Apr 5, 1994

US-PAT-NO: 5301095

DOCUMENT-IDENTIFIER: US 5301095 A

TITLE: High power factor AC/DC converter

DATE-ISSUED: April 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Teramoto; Susumu	Tokyo			JP
Sekine; Masaoki	Tokyo			JP
Saito; Ryoji	Tokyo			JP

US-CL-CURRENT: 363/21.07; 363/37, 363/81, 363/89

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NOIC	Draw D
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☐ 11. Document ID: US 5278748 A

L38: Entry 11 of 23

File: USPT

Jan 11, 1994

US-PAT-NO: 5278748

DOCUMENT-IDENTIFIER: US 5278748 A

TITLE: Voltage-resonant DC-DC converter

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kitajima; Tokimune	Tokyo			JP

US-CL-CURRENT: 363/21.02; 363/56.11, 363/56.12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NOIC	Draw D
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☐ 12. Document ID: US 5267138 A

L38: Entry 12 of 23

File: USPT

Nov 30, 1993

US-PAT-NO: 5267138

DOCUMENT-IDENTIFIER: US 5267138 A

TITLE: Driving and clamping power regulation technique for continuous, in-phase, full-duration, switch-mode resonant converter power supply

DATE-ISSUED: November 30, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Shores; Ronald B. Denver CO

US-CL-CURRENT: 363/98; 363/132, 363/17, 363/95, 378/112

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 13. Document ID: US 5059868 A

L38: Entry 13 of 23

File: USPT

Oct 22, 1991

US-PAT-NO: 5059868

DOCUMENT-IDENTIFIER: US 5059868 A

TITLE: Starting circuit for an electrodeless high intensity discharge lamp

DATE-ISSUED: October 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
El-Hamamsy; Sayed-Amr A.	Schenectady	NY		
Thomas; Robert J.	Schenectady	NY		

US-CL-CURRENT: 315/248; 313/234, 315/344

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 14. Document ID: US 4311977 A

L38: Entry 14 of 23

File: USPT

Jan 19, 1982

US-PAT-NO: 4311977

DOCUMENT-IDENTIFIER: US 4311977 A

TITLE: Output transformer

DATE-ISSUED: January 19, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Owen; Kenneth	Dallas	TX		

US-CL-CURRENT: 336/69; 336/180, 336/183

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 15. Document ID: US 4021726 A

L38: Entry 15 of 23

File: USPT

May 3, 1977

US-PAT-NO: 4021726

DOCUMENT-IDENTIFIER: US 4021726 A

TITLE: Image formation using nuclear magnetic resonance

DATE-ISSUED: May 3, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garroway; Allen Nathan	Oxon Hill	MD		
Grannell; Peter Kevin	Newcastle			EN
Mansfield; Peter	Chilwell			EN

US-CL-CURRENT: 324/309; 324/312

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NOI	Draw D
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☐ 16. Document ID: US 3882376 A

L38: Entry 16 of 23

File: USPT

May 6, 1975

US-PAT-NO: 3882376

DOCUMENT-IDENTIFIER: US 3882376 A

TITLE: METHODS AND APPARATUS FOR INVESTIGATING EARTH FORMATIONS

DATE-ISSUED: May 6, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Nick A.	Darien	CT		

US-CL-CURRENT: 324/373

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	NOI	Draw D
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☐ 17. Document ID: US 3798535 A

L38: Entry 17 of 23

File: USPT

Mar 19, 1974

US-PAT-NO: 3798535

DOCUMENT-IDENTIFIER: US 3798535 A

TITLE: METHODS AND APPARATUS FOR INVESTIGATING EARTH FORMATIONS

DATE-ISSUED: March 19, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Nick A.	Darien	CT		

US-CL-CURRENT: 324/373

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 18. Document ID: US 3798534 A

L38: Entry 18 of 23

File: USPT

Mar 19, 1974

US-PAT-NO: 3798534

DOCUMENT-IDENTIFIER: US 3798534 A

TITLE: METHODS AND APPARATUS FOR INVESTIGATING EARTH FORMATIONS

DATE-ISSUED: March 19, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Nick A.	Darien	CT		

US-CL-CURRENT: 324/373

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 19. Document ID: US 3798533 A

L38: Entry 19 of 23

File: USPT

Mar 19, 1974

US-PAT-NO: 3798533

DOCUMENT-IDENTIFIER: US 3798533 A

TITLE: METHODS AND APPARATUS FOR INVESTIGATING EARTH FORMATIONS

DATE-ISSUED: March 19, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Nick A.	Darien	CT		

US-CL-CURRENT: 324/373

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 20. Document ID: US 3760260 A

L38: Entry 20 of 23

File: USPT

Sep 18, 1973

US-PAT-NO: 3760260

DOCUMENT-IDENTIFIER: US 3760260 A

TITLE: METHOD AND APPARATUS FOR INVESTIGATING EARTH FORMATIONS BY EMITTING SURVEY

AND AUXILIARY CURRENTS FROM THE SAME ELECTRODE

DATE-ISSUED: September 18, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schuster; Nick A.	Darien	CT		

US-CL-CURRENT: 324/373; 324/374

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D.
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☐ 21. Document ID: US 3065413 A

L38: Entry 21 of 23

File: USOC

Nov 20, 1962

US-PAT-NO: 3065413

DOCUMENT-IDENTIFIER: US 3065413 A

TITLE: Magnetic gradiometer system

DATE-ISSUED: November 20, 1962

INVENTOR-NAME: FERGUSON JOHN G

US-CL-CURRENT: 324/254

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D.
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☐ 22. Document ID: US 3064185 A

L38: Entry 22 of 23

File: USOC

Nov 13, 1962

US-PAT-NO: 3064185

DOCUMENT-IDENTIFIER: US 3064185 A

TITLE: Magnetic gradiometer system

DATE-ISSUED: November 13, 1962

INVENTOR-NAME: FERGUSON JOHN G

US-CL-CURRENT: 324/254

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D.
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☐ 23. Document ID: US 2996663 A

L38: Entry 23 of 23

File: USOC

Aug 15, 1961

US-PAT-NO: 2996663

DOCUMENT-IDENTIFIER: US 2996663 A

TITLE: Magnetic field gradiometer

DATE-ISSUED: August 15, 1961

INVENTOR-NAME: FERGUSON JOHN G

US-CL-CURRENT: 324/245; 332/147, 336/30, 336/92, 340/870.33

Full	Title	Creation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
COIL	1220365
COILS	404501
WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(26 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	23
(L26 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	23

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☐ 1. Document ID: US 20050024056 A1

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L39: Entry 1 of 4

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Drawings
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☐ 2. Document ID: US 20030197093 A1

L39: Entry 2 of 4

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030197093

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030197093 A1

TITLE: Magnetic vortex wormhole generator

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
St.Clair, John Quincy	San Juan	PR	US	

US-CL-CURRENT: 244/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	DOC	Drawings
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☐ 3. Document ID: US 5059868 A

L39: Entry 3 of 4

File: USPT

Oct 22, 1991

US-PAT-NO: 5059868

DOCUMENT-IDENTIFIER: US 5059868 A

TITLE: Starting circuit for an electrodeless high intensity discharge lamp

DATE-ISSUED: October 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
El-Hamamsy; Sayed-Amr A.	Schenectady	NY		
Thomas; Robert J.	Schenectady	NY		

US-CL-CURRENT: 315/248; 313/234, 315/344

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOC	Draw D
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☐ 4. Document ID: US 4311977 A

L39: Entry 4 of 4

File: USPT

Jan 19, 1982

US-PAT-NO: 4311977

DOCUMENT-IDENTIFIER: US 4311977 A

TITLE: Output transformer

DATE-ISSUED: January 19, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Owen; Kenneth	Dallas	TX		

US-CL-CURRENT: 336/69; 336/180, 336/183

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOC	Draw D
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
COIL	1220365
COILS	404501

WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(27 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L27 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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☐ 1. Document ID: US 20050024056 A1

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L40: Entry 1 of 1

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Notes	Drawings
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
COIL	1220365
COILS	404501
WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(28 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

(L28 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L41: Entry 1 of 1

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOI	Draw G
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
COIL	1220365
COILS	404501
WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(35 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

(L35 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L42: Entry 1 of 1

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FOIA	Drawings
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Term	Documents
GRADIENT	270904
GRADIENTS	66675
COIL	1220365
COILS	404501
WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(13 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

(L13 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20050024056 A1

Using default format because multiple data bases are involved.

L43: Entry 1 of 4

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050024056 A1

TITLE: Methods and apparatus for switching frequency ripple reduction in coils

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sabate, Juan Antonio	Gansevoort	NY	US	
Steigerwald, Robert Louis	Burnt Hills	NY	US	
Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOI	Draw
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☐ 2. Document ID: US 5721490 A

L43: Entry 2 of 4

File: USPT

Feb 24, 1998

US-PAT-NO: 5721490

DOCUMENT-IDENTIFIER: US 5721490 A

TITLE: Power source apparatus including a plurality of output current amplifiers connected in parallel and MRI apparatus using the same

DATE-ISSUED: February 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Hiroshi	Ibaraki-ken			JP
Takeuchi; Hiroyuki	Kashiwa			JP
Chabata; Keiichi	Kashiwa			JP
Domoto; Takuya	Kashiwa			JP
Hatakeyama; Takanobu	Ryugasaki			JP

US-CL-CURRENT: 324/322; 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NOAC	Draw D
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☐ 3. Document ID: US 5270657 A

L43: Entry 3 of 4

File: USPT

Dec 14, 1993

US-PAT-NO: 5270657

DOCUMENT-IDENTIFIER: US 5270657 A

TITLE: Split gradient amplifier for an MRI system

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wirth; William F.	Sullivan	WI		
McFarland; Thomas G.	Hartland	WI		
Vavrek; Robert M.	Waukesha	WI		
Roemer; Peter B.	Schenectady	NY		
Mueller; Otward M.	Ballston Lake	NY		
Park; John N.	Rexford	NY		

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NOAC	Draw D
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☐ 4. Document ID: US 5081409 A

L43: Entry 4 of 4

File: USPT

Jan 14, 1992

US-PAT-NO: 5081409

DOCUMENT-IDENTIFIER: US 5081409 A

TITLE: Pulse-width modulated circuit for driving a load

DATE-ISSUED: January 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goff; Jerry K.	Doylestown	PA		

US-CL-CURRENT: 318/811; 318/599, 388/811, 388/907.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NOAC	Draw D
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Term	Documents
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GRADIENTS	66675
COIL	1220365
COILS	404501
WINDING	681079
WINDINGS	232676
HELIX	85860
HELICES	18379
HELIXES	3415
(12 AND (GRADIENT WITH (HELIX OR WINDING OR COIL))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L12 AND (GRADIENT WITH (COIL OR WINDING OR HELIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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File: PGPB

Feb 3, 2005

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DOCUMENT-IDENTIFIER: US 20050024056 A1

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INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Schutten, Michael Joseph	Rotterdam	NY	US	

US-CL-CURRENT: 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NOI	Draw
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TRANSFORMABE	2
TRANSFORMABI	1
TRANSFORMABIE	3
TRANSFORMABL	3

(L43 AND ((TRANSFORM\$4) WITH (CONNECT\$4 OR COUPLE\$4 OR LINK\$3 OR INDUCT\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1
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